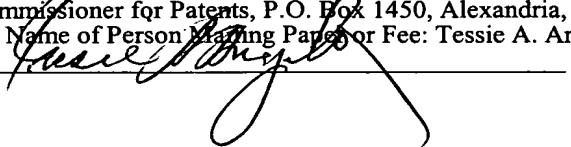


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PATENT
Docket No. P1574

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: MOON-HEE SUNG
SEUNG-PYO HONG
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KYUNG-SOO HAHM
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CHUL-JOONG KIM
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SERIAL NO.: FILED HEREWITH EXAMINER: UNASSIGNED
FILED: FILED HEREWITH ART UNIT: UNASSIGNED
FOR: SURFACE EXPRESSION METHOD OF PEPTIDES P5 AND ANAL3
USING THE GENE ENCODING POLY-GAMMA-GLUTAMATE
SYNTHETASE

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INFORMATION DISCLOSURE TRANSMITTAL STATEMENT

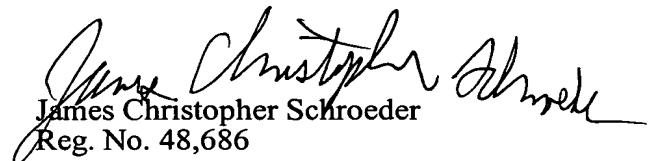
Applicant hereby lists the references on the enclosed form PTO-1449, Information Disclosure Statement by Applicant, to assist the Patent and Trademark Office in its examination of this application.

The disclosure of the references does not constitute an admission that they are relevant or material to the claims or are "prior art" to the subject application. No representation is made that better references do not exist.

Complete copies of the references are enclosed.

Please date-stamp the enclosed post card and return same to the undersigned in acknowledgment of receipt of all transmitted materials.

Respectfully submitted,


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JCS/taa/khg
February 27, 2004
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					Applicant: Moon-Hee, Sung, et al.		
					Filing Date: Filed Herewith	Group: Unassigned	
U.S. Patent Documents							
Examiner Initial	No	Document Number	Date	Name	Class	Sub class	Group
		WO 03/014360 A1	20/02/2003	BIOLEADERS CORPORATION; M.D. LAB CO., LTD.			
Foreign Patent Documents							
	No.	Document Number	Date	Country	Class	Sub class	Translation
							Yes
		KR Pat. App. No. 10-2001-0057837	28/03/2003	Korea			
		KR Pat. App. No. 10-2000-0078615	26/06/2002	Korea			
Other Documents (Including Author, title, Date, Pertinent Pages, Etc.)							
1	CINTAS, L.M. ET AL., "Enterocins L50A and L50B, Two Novel Bacteriocins from Enterococcus faecium L50, Are Related to Staphylococcal Hemolysins," Journal of Bacteriology, April 1998, Vol. 180, No. 8, 1988-1994						
2	BEVINS, C.L. and ZASLOFF, M., "Peptides from Frog Skin," Annu. Rev. Biochem, 1990, 59:395-414						
3	MIYASAKI, K.T. and LEHRER, R. I., " β -sheet Antibiotic Peptides as Potential Dental Therapeutics," International Journal of Antimicrobial Agents 9, 1998, 269-280						
4	BOMAN, H.G., "Antibacterial Peptides: Key Components Needed in Immunity," Cell, Vol. 65, 205-207, April 19, 1991						
5	BOMAN, H.G., "Peptide Antibiotics and Their Role in Innate Immunity," Annu. Rev. Immunol, 1995, 13:61-92						
6	BOMAN, H.G., ET AL., "Antibacterial and Antimalarial Properties of Peptides that are Cecropin-melittin Hybrids," Federation of European Biochemical Societies, Vol. 259, number 1, 103-106, December 1989						
Examiner				Date Considered			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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				Applicant: Moon-Hee, Sung, et al.	
				Filing Date: Filed Herewith	Group: Unassigned
Other Documents (Including Author, title, Date, Pertinent Pages, Etc.)					
	7	WADE, D. ET AL., "Antibacterial Peptides Designed as Analogs or Hybrids of Cecropins and Melittin," Int. J. Peptide Protein Res. 40, 1992, 429-436			
	8	PUTSEP, K. ET AL., "Antibacterial Peptide from H. Pylori," Nature, Vol. 398, April 22, 1999			
	9	CHARBIT, A., ET AL., "Presentation of Two Epitopes of the preS2 Region of Hepatitis B Virus on Live Recombinant Bacteria," The Journal of Immunology, 1987, The American Association of Immunologists, Vol. 139, 1658-1664, No. 5, September 1, 1987			
	10	AGTERBERG, M. ET AL., "Outer Membrane PhoE Protein of Escherichia coli as a Carrier for Foreign Antigenic Determinants: Immunogenicity of Epitopes of Foot-and-Mouth Disease Virus," Vaccine, Vol. 8, February 1990, Butterworth & Co. Ltd.			
	11	FELICI, F. ET AL., "Section of Antibody Ligands from a Large Library of Oligopeptides Expressed on a Multivalent Exposition Vector," J. Mol. Biol. 1991, 222, 301-310			
	12	FUCHS, P. ET AL., "Targeting Recombinant Antibodies to the Surface of Escherichia coli: Fusion to a Peptidoglycan Associated Lipoprotein," Bio/Technology, Vol. 9, December 1991			
	13	FRANCISCO, J.A., ET AL., "Transport and Anchoring of β -lactamase to the External Surface of Escherichia coli." Proc. Natl. Acad. Sci. USA, Vol. 89, pp. 2713-2717, April 1992			
	14	HEDEGAARD, L. ET AL., "Type 1 Fimbriae of Escherichia coli as Carriers of Heterologous Antigenic Sequences," Gene, 85, 1989, 115-124			
	15	JUNG, H.C., ET AL., "Surface Display of Zymomonas Mobilis Levansucrase by Using the Ice-nucleation Protein of Pseudomonas Syringae," Nature Biotechnology, Vol. 16, June 1998			
	16	JUNG, H.C., ET AL., "Expression of Carboxymethylcellulase on the Surface of Escherichia coli Using Pseudomonas Syringae Ice Nucleation Protein," Enzyme and Microbial Technology 22:348-354, 1998, New York, USA			
	17	LEE, J.S., ET AL., "Surface-displayed Viral Antigens on Salmonella Carrier Vaccine," Nature Biotechnology, Vol. 10, June 2000			
	18	KORNACKER, M.G. and PUGSLEY, A.P., "The normally periplasmic enzyme β -lactamase is Specifically and Efficiently Translocated through the Escherichia coli Outer Membrane when it is Fused to the Cell-surface Enzyme Pullulanase," Molecular Microbiology, 1990, 4(7), 1101-1109			
	19	KLAUSER, T., ET AL., "Extracellular Transport of Cholera Toxin B Subunit Using Neisseria IgA Protease β -domain: Conformation-dependent Outer Membrane Translocation," The EMBO Journal, Vol. 9, no. 6, pp. 1991-1999, 1990			
Examiner			Date Considered		
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